

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1317773

Luminaire Tested: LDSQA3D20R309827D010 3LSQPHR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R309827D010 3LSQPHR1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , 3LSQPHR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

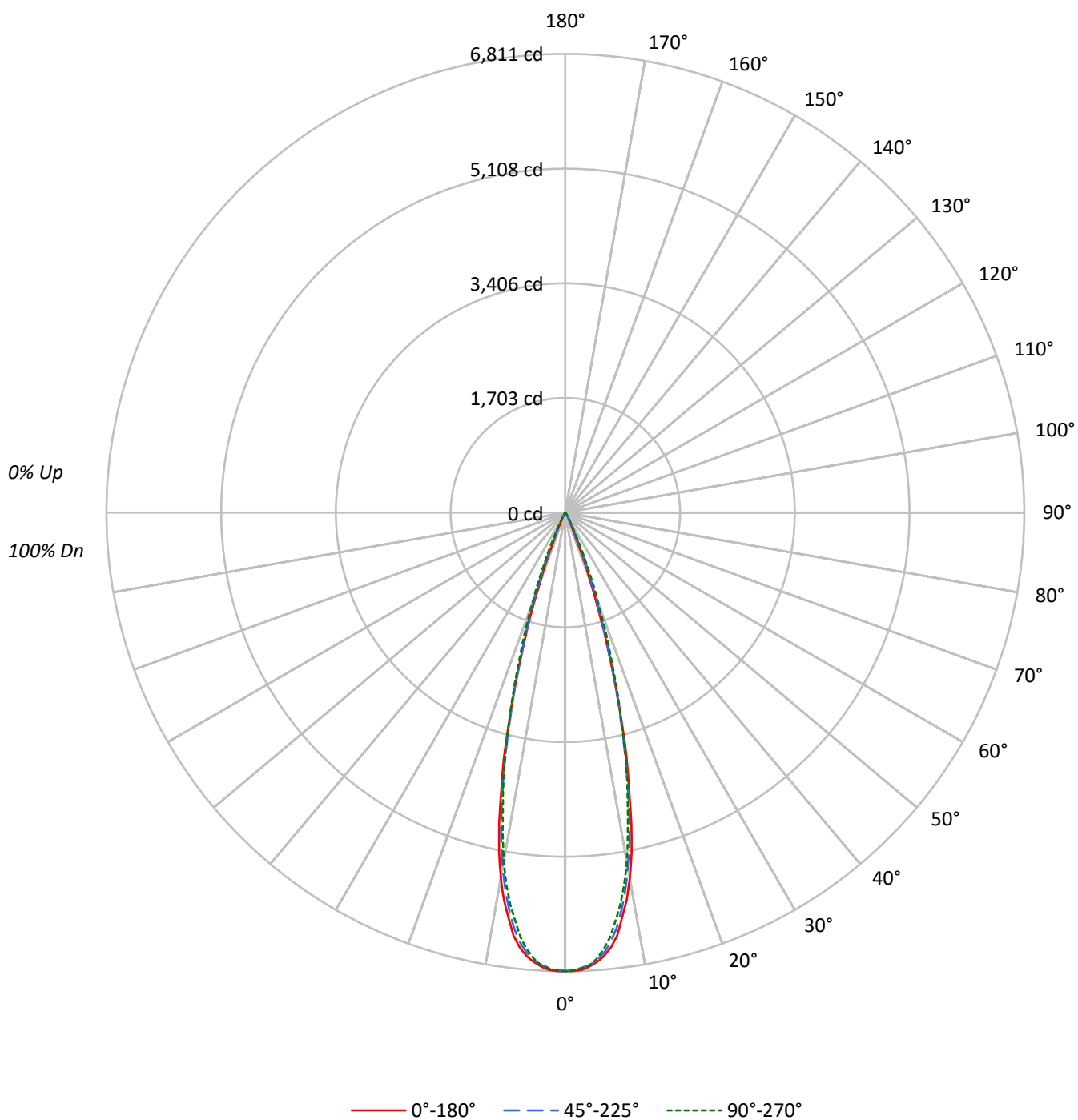
Lumens per Lamp: N/A  
Luminaire Lumens: 1650.0 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 0.5 / 0.49 / 0.46  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 115 | 113 | 111 | 110 | 113 | 111 | 109 | 108 | 107 | 106 | 105 |  | 103 | 103 | 102 |  | 100 |
| 2   | 112 | 108 | 105 | 103 | 110 | 107 | 104 | 102 | 104 | 101 | 100 |  | 101 | 99  | 98  |  | 98  |
| 3   | 108 | 104 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 96  |  | 98  | 96  | 94  |  | 96  |
| 4   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 93  | 97  | 94  | 92  |  | 95  | 93  | 91  |  | 94  |
| 5   | 102 | 97  | 93  | 90  | 101 | 96  | 93  | 90  | 95  | 91  | 89  |  | 93  | 90  | 88  |  | 92  |
| 6   | 100 | 94  | 90  | 87  | 99  | 93  | 90  | 87  | 92  | 89  | 86  |  | 91  | 88  | 86  |  | 90  |
| 7   | 97  | 91  | 87  | 84  | 96  | 91  | 87  | 84  | 90  | 86  | 84  |  | 88  | 86  | 83  |  | 88  |
| 8   | 95  | 89  | 85  | 82  | 94  | 88  | 84  | 82  | 87  | 84  | 82  |  | 86  | 83  | 81  |  | 86  |
| 9   | 92  | 86  | 82  | 80  | 92  | 86  | 82  | 80  | 85  | 82  | 79  |  | 84  | 81  | 79  |  | 84  |
| 10  | 90  | 84  | 80  | 78  | 90  | 84  | 80  | 78  | 83  | 80  | 77  |  | 82  | 79  | 77  |  | 82  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1172767 | 1172767 | 1172767 |
| 5°  | 1142567 | 1134701 | 1125366 |
| 10° | 964233  | 934626  | 919446  |
| 15° | 581073  | 564848  | 575243  |
| 20° | 197094  | 227610  | 262542  |
| 25° | 36219   | 56761   | 67041   |
| 30° | 12449   | 13861   | 15551   |
| 35° | 3595    | 4478    | 4794    |
| 40° | 967     | 1596    | 1281    |
| 45° | 341     | 341     | 341     |
| 50° | 375     | 0       | 375     |
| 55° | 0       | 0       | 0       |
| 60° | 0       | 0       | 0       |
| 65° | 0       | 0       | 0       |
| 70° | 0       | 0       | 0       |
| 75° | 0       | 0       | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 396 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 588.8  | 35.7      |
| 10°-20°   | 860.6  | 52.2      |
| 20°-30°   | 182.1  | 11.0      |
| 30°-40°   | 16.8   | 1.0       |
| 40°-50°   | 1.6    | 0.1       |
| 50°-60°   | 0.1    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| <hr/>     |        |           |
| 0°-30°    | 1631.5 | 98.9      |
| 0°-40°    | 1648.3 | 99.9      |
| 0°-60°    | 1650.0 | 100.0     |
| 0°-90°    | 1650.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1650.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6810 | 6810  | 6810 | 6810  | 6810 |      |
| 5°  | 6609 | 6596  | 6564 | 6544  | 6510 | 597  |
| 15° | 3259 | 3248  | 3168 | 3242  | 3226 | 860  |
| 25° | 191  | 213   | 299  | 351   | 353  | 139  |
| 35° | 17   | 21    | 21   | 26    | 23   | 14   |
| 45° | 1    | 1     | 1    | 1     | 1    | 1    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 6809.6 | 6809.6 | 6809.6 | 6809.6 | 6809.6 |
| 1°    | 6811.0 | 6803.9 | 6794.0 | 6808.2 | 6798.2 |
| 2°    | 6796.8 | 6779.7 | 6765.5 | 6779.7 | 6775.5 |
| 3°    | 6754.1 | 6739.9 | 6730.0 | 6737.1 | 6737.1 |
| 4°    | 6690.1 | 6674.5 | 6665.9 | 6667.4 | 6646.0 |
| 5°    | 6609.0 | 6596.2 | 6563.5 | 6543.6 | 6509.5 |
| 6°    | 6489.5 | 6458.3 | 6418.4 | 6385.7 | 6341.6 |
| 7°    | 6327.4 | 6279.0 | 6222.1 | 6165.2 | 6109.7 |
| 8°    | 6067.1 | 6044.3 | 5967.5 | 5929.1 | 5873.6 |
| 9°    | 5822.4 | 5766.9 | 5684.4 | 5621.8 | 5591.9 |
| 10°   | 5513.7 | 5431.2 | 5344.4 | 5294.6 | 5257.6 |
| 11°   | 5148.1 | 5064.2 | 4994.5 | 4921.9 | 4865.0 |
| 12°   | 4718.5 | 4647.4 | 4567.7 | 4519.4 | 4452.5 |
| 13°   | 4209.2 | 4199.3 | 4109.7 | 4094.0 | 4085.5 |
| 14°   | 3772.5 | 3732.7 | 3644.5 | 3668.7 | 3674.4 |
| 15°   | 3259.0 | 3247.6 | 3168.0 | 3241.9 | 3226.3 |
| 17.5° | 2041.3 | 2045.6 | 2095.4 | 2212.0 | 2249.0 |
| 20°   | 1075.4 | 1108.1 | 1241.9 | 1382.7 | 1432.5 |
| 22.5° | 435.3  | 507.8  | 644.4  | 739.7  | 803.7  |
| 25°   | 190.6  | 213.4  | 298.7  | 351.4  | 352.8  |
| 27.5° | 108.1  | 109.5  | 143.7  | 149.4  | 152.2  |
| 30°   | 62.6   | 64.0   | 69.7   | 74.0   | 78.2   |
| 32.5° | 34.1   | 37.0   | 38.4   | 44.1   | 44.1   |
| 35°   | 17.1   | 21.3   | 21.3   | 25.6   | 22.8   |
| 37.5° | 10.0   | 11.4   | 12.8   | 12.8   | 11.4   |
| 40°   | 4.3    | 5.7    | 7.1    | 7.1    | 5.7    |
| 42.5° | 1.4    | 2.8    | 2.8    | 2.8    | 4.3    |
| 45°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 47.5° | 1.4    | 1.4    | 0.0    | 1.4    | 1.4    |
| 50°   | 1.4    | 0.0    | 0.0    | 0.0    | 1.4    |
| 52.5° | 1.4    | 0.0    | 0.0    | 0.0    | 1.4    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)